



VRGX-1 Technical Specifications

Product Name

Waist High Gate – Model VRGX-1

Manufacturer

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Product Description: The VRGX-1 gate is an electric lock controlled, waist high, self-closing gate. The gate arm is equipped with a locking latch and swings in one direction. In most applications, the VRGX-1 gate meets the guidelines contained in the Americans with Disabilities Act Accessibility Guidelines (ADAAG) as issued by the Architectural and Transportation Barriers Compliance Board. **Note:** Because of the potential for varying standards, Alvarado makes no representation regarding the compliance of this product with any state or local laws or regulations regarding public access.

The standard VRGX-1 incorporates a gravity closure and a hydraulic dampening mechanism to prevent the gate arm from slamming. Both closure mechanisms are installed in the hinge post. The following lock configuration of the VRGX-1 is available:

- **Electric Strike Lock** – Provides 12 VDC electric lock control. A fail safe (lock disengages with power is removed) electric strike lock is the standard lock used unless otherwise specified. A fail lock electric strike lock is available as an option.

Materials: All tubing and sheet metal materials meet the appropriate ASTM Standards.

Mechanical Components:

- The **Gate Arm** is a fully welded assembly constructed of 1.5" diameter x 16-gauge cold rolled carbon steel (or #304 SS) tubing. The assembly consists of a miter cut and welded frame with four notched and welded interior vertical pieces and a 1/8" thick stainless steel kickplate. All welds are ground smooth. The top of the gate arm is 36.75" from the floor. The bottom of the gate arm is 1.50" from the floor. In a fully open (90 degree) position, the gate provides a clear opening of 35" (latch post base flange to hinge post tabs).
- The **Latch Post** is constructed from a 2.25" diameter x 16-gauge cold rolled carbon steel (or #304 SS) tube with a steel cap. All welds are ground smooth. The post is 39.75" high and is secured to the floor using four anchors and bolts. A base flange cover is provided.
- The **Hinge Post** is constructed from a 2.25" diameter x 16-gauge cold rolled carbon steel (or #304 SS) tube with a steel cap. All welds are ground smooth. The post is 39.75" high and is secured to the floor using four anchors and bolts. A split base flange cover is provided.

Finishes: The VRGX-1 Gate is available in the following finishes:

- **Powder Coated** – Available in a wide variety of colors. Sub-assemblies are sand blasted to prepare for the powder coat finish. The powder is electrostatically applied, then baked to assure proper curing and adhesion.
- **Stainless Steel** – All external fabricated materials are composed of #304 stainless steel (noted in the descriptions above as #304 SS) and polished to a #4 satin finish.

Size: VRGX-1 units have an overall height of 39.75", an overall width of 47", and a depth of 5.5" when the gate arm is closed. The height of the gate arm is 36.75".

Electrical Components and Functionality: The following are the electrical requirements and standard functionality of the VRGX-1:

- **Power** – The VRGX-1 has a standard input power requirement of 120 VAC. Primary power is stepped down and rectified for low voltage 12 VDC operation. The actual current draw of the VRGX-1 will vary depending on the application, but the maximum draw under any circumstance is 0.25 A per gate. The 120 VAC power supply provided is capable of being plugged into a wall outlet or power strip. The provided power supply is designed to power only the supplied gate and no other external devices.

- **Activation** – The VRGX-1 requires a sustained normally closed activation to unlock the gate. The gate lock will not re-engage until the switch is released and the gate arm is closed.

Shipping: VRGX-1 gates are shipped in two main sections: the Gate with Hinge Post, and the Latch Post with Lock Mechanism. Each section is fully fabricated as a sub-assembly for easy installation. Each VRGX-1 gate includes mounting hardware (anchors, bolts, washers, etc.) to mount the unit to a standard, level concrete floor. Alvarado ships products throughout the world.

Installation: All VRGX-1 gates must be installed on a firm foundation in a manner that allows the required power and activation signal cabling to be pulled into the latch post. The gate must be installed on level concrete. No embedded fasteners are needed for installation. Installation should be performed by a skilled installer following the manufacturer's directions and instructions (supplied with the gate).

Options:

The following is a list of options that are available for the VRGX-1 gates:

- **Fail Lock Electric Strike Lock** – The electric strike lock will remain locked upon power loss. Fail lock VRGX-1 gates require a sustained normally open activation to unlock the gate. Alvarado Part #10-3111.
- **Extended Gate Arm** – Extended gate arms up to 42" long can be provided. VRGX-1 units with 42" gate arms have an overall width of 54".
- **Crash Plates** – Crash plates are 8" high and run the entire length of the gate arm. Crash plates are constructed from 1/8" stainless steel and are welded to the upper portion of the gate arm assembly.
- **Push Bar** – A push bar can be added to provide the ability to unlock the gate arm in the event of an emergency. When this option is ordered, two additional wires are provided coming out of the bottom of the gate hinge post. Alvarado Part #10-3160.
- **Push Button Assembly for Unlocking Gate Remotely** – Red activation button installed in a black plastic box. Alvarado Part #PB-2.
- **Small "Press to Exit" Button Assembly** – Alvarado Part #10-1422.
- **Large "Press to Exit" Button Assembly** – Alvarado Part #10-1423.

Warranty: Alvarado Manufacturing Co., Inc. warrants the VRGX-1 gate from defects in material or workmanship, for the period of ONE YEAR from date of shipment. Complete details of the warranty are available from Alvarado by request.

Technical Services: Technical information is available from Alvarado Mfg. Co., Inc., and its representatives, distributors and dealers.